Amendment to the Claims:

This listing of Claims will replace all prior versions of Claims in the application:

Listing of Claims:

Claim 1 (currently amended): A thermal imaging system intended for use upon a helmet worn by a person observing a scene at a fire or other incident site, comprising:

infrared camera means assembled and releasably mounted in a stationary position along the centerline of the helmet for producing video signals reflective of thermal images of the scene viewed along the centerline, said infrared camera means comprising an infrared camera having a sensor array forwardly positioned to detect infrared radiation emanating from the scene for producing electrical signals indicative thereof, signal processor means connected to receive the electrical signals from said infrared camera for generating processed video signals based thereon indicative of thermal images of the scene, battery means connected to said infrared camera and said signal processor means for providing electrical power thereto, and housing means for containing said infrared camera, said signal processor means and said battery means in an assembled camera arrangement wherein the sensor array of said infrared camera is forwardly disposed to receive the infrared radiation emanating from the scene, said housing means comprising a front housing member formed having a cavity to substantially contain the assembled camera arrangement therein and further having a portal centrally therethrough to permit transmission of the infrared radiation emanating from the scene to the sensor array of said infrared camera, a rear housing member connected to said front housing member and formed to enclose the cavity

thereof, said rear housing member being further formed to provide an interior compartment to hold said battery means, and a battery door pivotally connected to said rear housing member to close the interior compartment therein;

eyepiece display means extended from said infrared camera means and adjustably connected thereto for presenting thermal images of the scene to either eye of the person based on the video signals from said infrared camera means; and

bracket means assembled and interconnected between said infrared camera means and the helmet, said bracket means being axially aligned with the centerline of the helmet and interlocked therealong for releasably mounting said infrared camera means in the stationary position along the centerline of the helmet.

Claim 2 (canceled)

Claim 3 (canceled)

Claim 4 (canceled)

Claim 5 (currently amended): A thermal imaging system according to Claim ~~3~~ 1, wherein said eyepiece display means comprises:

an eyepiece display electrically connected to receive the processed video signals from said signal processor means for producing thermal images therefrom; and

an articulated arm connected to said housing means and adjustably configured to extend said eyepiece display therefrom in a position forward of either eye of the person.

Claim 6 (currently amended): A thermal imaging system according to Claim ~~3~~ 1, wherein said bracket means comprises:

a first bracket member attached to said housing means in an axial direction, said first bracket member being formed having an open rectangular configuration with a C-shaped cross-section;

a second bracket member attached to the helmet in an axial direction and along the centerline of the helmet, said second bracket member being formed having a rectangular configuration conformed to fit axially within the open rectangular configuration of said first bracket member; and

detent means secured to said second bracket member and transversely disposed thereon to releasably interlock said first and second bracket members when axially engaged.

Claim 7 (currently amended): A thermal imaging camera system for use upon a helmet having a brim and worn by a person observing a scene at a fire or other incident site, comprising:

infrared camera means assembled and adapted to be mounted in a stationary position upon the brim of the helmet, said infrared camera means being disposed to view the scene along the centerline of the helmet for generating processed video signals reflective of thermal images of the scene and further comprising an infrared camera having a sensor array forwardly positioned to detect infrared radiation emanating from the scene for producing electrical signals indicative thereof, signal processor means connected to receive the electrical signals from said infrared camera for generating processed video signals based thereon indicative of thermal images of the scene, battery means connected to said infrared camera and said signal processor means for providing electrical power thereto, and housing means for containing said

infrared camera, said signal processor means and said battery means in an assembled camera arrangement wherein the sensor array of said infrared camera is forwardly disposed to receive the infrared radiation emanating from the scene, said housing means further comprising a front housing member formed having a cavity to substantially contain the assembled camera arrangement therein and a portal centrally therethrough to permit transmission of the infrared radiation emanating from the scene to the sensor array of said infrared camera, a rear housing member connected to said front housing member and formed to enclose the cavity thereof, said rear housing member being further formed to provide an interior compartment to hold said battery means, and a battery door pivotally connected to said rear housing member to close the interior compartment therein;

eyepiece display means electrically connected to said infrared camera means and flexibly extended therefrom for displaying thermal images of the scene to either eye of the person based on the video signals generated from said infrared camera means; and

bracket means assembled and interconnected between said infrared camera means and the brim of the helmet, said bracket means being axially aligned with the centerline of the helmet and interlocked therealong for releasably mounting said infrared camera means in the stationary position along the centerline of the helmet.

Claim 8 (canceled)

Claim 9 (canceled)

Claim 10 (canceled)

Claim 11 (currently amended): A thermal imaging camera system according to Claim ~~9~~ 7, wherein said eyepiece display means comprises:

an eyepiece display electrically connected to receive the processed video signals from said signal processor means for producing thermal images therefrom; and

an articulated arm connected to said housing means and adjustably configured to extend said eyepiece display therefrom in a position forward of either eye of the person.

Claim 12 (currently amended): A thermal imaging camera system according to Claim ~~9~~ 7, wherein said bracket means comprises:

a first bracket member attached to said housing means in an axial direction, said first bracket member being formed having an open rectangular configuration with a C-shaped cross-section;

a second bracket member attached to the brim of the helmet in an axial direction and along the centerline thereof, said second bracket member being formed having a rectangular configuration conformed to fit axially within the open rectangular configuration of said first bracket member; and

detent means secured to said second bracket member and transversely disposed thereon to releasably interlock said first and second bracket members when axially engaged.

Claim 13 (currently amended): A thermal imaging system intended for use upon a helmet worn by a person observing a scene at a fire or other incident site, comprising:

infrared camera means assembled and releasably mounted along the centerline of the helmet for producing video signals reflective of thermal images of the scene viewed along the centerline, said infrared camera means comprising an infrared camera having a sensor array forwardly positioned to detect infrared radiation emanating from the scene for producing electrical signals indicative thereof, signal processor means connected to receive the electrical signals from said infrared camera for generating processed video signals based thereon indicative of thermal images of the scene, battery means connected to said infrared camera and said signal processor means for providing electrical power thereto, and housing means for containing said infrared camera, said signal processor means and said battery means in an assembled camera arrangement wherein the sensor array of said infrared camera is forwardly disposed to receive the infrared radiation emanating from the scene;

eyepiece display means extended from said infrared camera means and adjustably connected thereto for presenting thermal images of the scene to either eye of the person based on the video signals from said infrared camera means; and

bracket means releasably engaged and coupled between said infrared camera means and the helmet for mounting said infrared camera means along the centerline of the helmet, a first bracket member attached to said housing means in an axial direction, said first bracket member being formed having an open rectangular configuration with a C-shaped cross-section, a second bracket member attached to the helmet in an axial direction and along the centerline of the helmet, said second bracket member being formed having a rectangular configuration conformed to fit axially within the open rectangular configuration of said first bracket member, and detent means secured to said second bracket member and transversely disposed thereon to releasably interlock said first and second bracket members when axially engaged .